

# Plate Settler Cost And Supplier Analysis

## Analysis

The table depicts the quoted prices of tube and plate settlers, the cost of AguaClara plate settlers, and the normalized quoted price.

Unknown macro: {excel}

[Link to the above spreadsheet](#)

The above table depicts the length (L), and the distance between each plate or the diameter of the tube (b) of all quoted settler systems and the current AguaClara settler design implemented at communities before the Four Communities Plant. All calculations are based upon the estimated area of the Gracias plant of 86.21 meters squared. To normalize the analysis of different performing and cost systems the  $V_{up}/V_c$  ratio equation was calculated. The price of one module of plate settler was then divided by this ratio.

The Meurer price per square meter [quote](#) includes shipping to any US port. The above price of \$650 is the quoted price divided by the number of square meters that would be in the Gracias sedimentation tank. On top of this price, I added \$10,000 dollars to the total cost as an estimate of the shipping price from the US to Honduras. It should be noted that the Meurer quote is the only quote that does include the support structure for the settling system. I chose this price based upon the shipping [quote](#) that I received from Brentwood for shipping from Mexico to Puerto Cortés, Honduras. This shipping price was for one of the three sedimentation tanks that the Gracias plant would contain. I multiplied this price times three to get a total Brentwood shipping cost. The quoted price for the Brentwood tube settlers is located [here](#). The Enviropax shipping quote was estimated at \$15,000. The above Enviropax price per square meter is the [quoted](#) price divided by the square meters of Gracias sedimentation tank.